

Tucson Botanical Gardens and ADWR Xeriscape Contest

Worksheet: “The Volume Based Audit”

Professionals -this form must be completed and submitted if your entry is to be considered for special water conservation awards.

Optional for homeowner designed and installed landscapes

Row	Instructions	Example	Valve/Zone 1	Valve/Zone 2	Valve/Zone 3	Valve/Zone 4	Monthly Total
A	Starting Meter Reading	14,812.0 cf					Leave gray areas blank
B	Number of minutes valve was open for test	5 min					
C	Meter Reading at end of test	14,817.0 cf					
D	Minutes valve is scheduled to run on timer	85 min					
E	Days/week valve is scheduled to open on timer	4 days					
F	Amount of water used during test: (Row C – Row A)	14,817.0 – 14,812.0 = 5 cf					
G	Flow rate in cubic feet per minute: (Row F ÷ Row B)	5 cf ÷ 5 min = 1cf/min					
H	Amount of water used each time valve is run in cubic feet (Row g x Row D)	1cf/min x 85 min = 85 cf					
I	Water used to irrigate from this valve each week in cf: (Row E x Row H)	4 days x 85 cf = 340 cf					
J	Convert water use to Ccf (Row I ÷ 100)	340 cf ÷ 100 = 3.4 Ccf					
K	Ccf used to irrigate from this valve each month (Row J x 4.2)	3.4 Ccf x 4.2 = 14.3 Ccf					Add columns row K : Ccf
L	Circle One: D = Drip or S = Spray	D or S	D or S	D or S	D or S	D or S	

Adapted from The Homeowners’ Guide to Using Water Wisely Workbook – Tucson Water, 2000, used with permission